

# EXEMPLAR SOLUTIONS MATH'S

## Chapter 3 – Data Handling

Class

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## Chapter 3 – Data Handling

In Questions 1 to 16, there are four options, out of which only one is correct. Write the correct answer.

1. Let  $x, y, z$  be three observations. The mean of these observations is

- (a)  $(x \times y \times z)/3$  (b)  $(x + y + z)/3$   
(c)  $(x - y - z)/3$  (d)  $(x \times y + z)/3$

**Solution:-**

- (b)  $(x + y + z)/3$

The average or Arithmetic Mean or mean of a given data is defined as Sum of all observations by the Number of observations.

2. The number of trees in different parks of a city are 33, 38, 48, 33, 34, 34, 33 and 24. The mode of this data is

- (a) 24 (b) 34 (c) 33 (d) 48

**Solution:-**

- (c) 33

Mode is the observation that occurs most frequently in the data.

3. Which measures of central tendency get affected if the extreme observations on both the ends of a data arranged in descending order are removed?

- (a) Mean and mode (b) Mean and Median  
(c) Mode and Median (d) Mean, Median and Mode

**Solution:-**

- (a) Mean and mode

4. The range of the data: 21, 6, 17, 18, 12, 8, 4, 13 is

- (a) 17 (b) 12 (c) 8 (d) 15

**Solution:-**

- (a) 17

The difference between the highest and lowest observations in a given data is called its Range.

$$\begin{aligned}\text{Range} &= \text{Highest} - \text{lowest} \\ &= 21 - 4 \\ &= 17\end{aligned}$$

5. The median of the data: 3, 4, 5, 6, 7, 3, 4 is

- (a) 5 (b) 3 (c) 4 (d) 6



**Solution:-**

(c) 4

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

So, now arrange the given observation into ascending order 3, 3, 4, 4, 5, 6, 7

Therefore, 4 is the middle most observation and it is the median of the data.

**6. Out of 5 brands of chocolates in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency would be most appropriate if the data is provided to him?**

(a) Mean

(b) Mode

(c) Median

(d) Any of the three

**Solution:-**

(b) Mode

Mode is the observation that occurs most frequently in the data.

**7. There are 2 aces in each of the given set of cards placed face down. From which set are you certain to pick the two aces in the first go?**



**Solution:-**



The probability of picking the two aces in the first go is in option (c).

**8. In the previous question, what is the probability of picking up an ace from set (d)?**

(a)  $1/6$

(b)  $2/6$

(c)  $3/6$

(d)  $4/6$

**Solution:-**

(b)  $2/6$

Probability of picking up an ace from set = Number of ace in the set/ Total number of cards in the set.

9. The difference between the highest and the lowest observations in a data is its

- (a) frequency                      (b) width                      (c) range                      (d) mode

**Solution:-**

(c) Range

10. In a school, only 2 out of 5 students can participate in a quiz. What is the chance that a student picked at random makes it to the competition?

- (a) 20%                      (b) 40%                      (c) 50%                      (d) 30%

**Solution:-**

(b) 40%

From the question it is given that, in a school, only 2 out of 5 students can participate in a quiz.

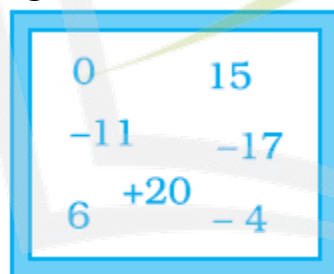
So, the chance that a student picked at random =  $\frac{2}{5}$

Then percentage =  $\frac{2}{5} \times 100$

$$= 0.4 \times 100$$

$$= 40 \%$$

11. Some integers are marked on a board. What is the range of these integers?



- (a) 31                      (b) 37                      (c) 20                      (d) 3

**Solution:-**

(b) 37

The difference between the highest and lowest observations in a given data is called its Range.

Range = Highest – lowest

$$= 20 - (-17)$$

$$= 20 + 17$$

$$= 37$$

12. On tossing a coin, the outcome is

- (a) only head  
(b) only tail

(c) neither head nor tail

(d) either head or tail

**Solution:-**

(d) either head or tail

**13. The mean of three numbers is 40. All the three numbers are different natural numbers. If lowest is 19, what could be highest possible number of remaining two numbers?**

(a) 81

(b) 40

(c) 100

(d) 71

**Solution:-**

(a) 81

From the question it is given that,

The mean of three numbers is 40.

Lowest number = 19

Let us assume the other two numbers be P, Q.

Then,

$$\text{Mean} = (P + Q + 19)/3$$

$$40 = (P + Q + 19)/3$$

By cross multiplication we get,

$$120 = P + Q + 19$$

$$120 - 19 = P + Q$$

Then,  $P + Q = 101$

$$\text{So, } 81 + 20 = 101$$

Therefore, the highest number is 81

**14. Khilona earned scores of 97, 73 and 88 respectively in her first three examinations. If she scored 80 in the fourth examination, then her average score will be**

(a) increased by 1

(b) increased by 1.5

(c) decreased by 1

(d) decreased by 1.5

**Solution:-**

(d) decreased by 1.5

From the question,

Khilona earned scores in 3 exam = 97, 73, 88

Then, Mean =  $(97 + 73 + 88)/3$

$$\text{Mean} = 86 \text{ marks}$$

Khilona earned scores in 4 exam = 97, 73, 88, 80

Then, Mean =  $(97 + 73 + 88 + 80)/4$

Mean = 84.5 marks

Then, her average score will be  $86 - 84.5 = 1.5$ , decreased by 1.5

**15. Which measure of central tendency best represents the data of the most popular politician after a debate?**

- (a) Mean                      (b) Median                      (c) Mode                      (d) Any of the above

**Solution:-**

(c) Mode

Mode is the observation that occurs most frequently in the data.

**16. Which of the following has the same mean, median and mode?**

- (a) 6, 2, 5, 4, 3, 4, 1                      (b) 4, 2, 2, 1, 3, 2, 3  
(c) 2, 3, 7, 3, 8, 3, 2                      (d) 4, 3, 4, 3, 4, 6, 4

**Solution:-**

(d) 4, 3, 4, 3, 4, 6, 4

Mean of the given data =  $(4 + 3 + 4 + 3 + 4 + 6 + 4)/7$   
 $= 4$

Mode is the observation that occurs most frequently in the data i.e. 4.

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

Arranging the given data, 3, 3, 4, 4, 4, 4, 6.

So, the median is 4.

**In Questions 17 to 31, fill in the blanks to make the statements true.**

**17. The difference between the highest and the lowest observations of a data is called \_\_\_\_\_.**

**Solution:-**

The difference between the highest and the lowest observations of a data is called range.

**18. The mean of a data is defined as \_\_\_\_\_.**

**Solution:-**

The average or Arithmetic Mean or mean of a given data is defined as Sum of all observations by the Number of observations.

**19. In a set of observations, the observation that occurs the most often is called \_\_\_\_\_.**



**Solution:-**

Mode

Mode is the observation that occurs most frequently in the data.

**20. In a given data, arranged in ascending or descending order, the middle most observation is called \_\_\_\_\_.**

**Solution:-**

Median.

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

**21. Mean, Median, Mode are the measures of \_\_\_\_\_.**

**Solution:-**

Central tendency

Mean, median and mode are the representative values of a group of observations. They are also called the measures of central tendency of the data.

**22. The probability of an event which is certain to happen is \_\_\_\_\_.**

**Solution:-**

The probability of an event which is certain to happen is 1.

**23. The probability of an event which is impossible to happen is \_\_\_\_\_.**

**Solution:-**

The probability of an event which is impossible to happen is 0.

**24. When a die is thrown, the probability of getting a number less than 7 is \_\_\_\_\_.**

**Solution:-**

When a die is thrown, the probability of getting a number less than 7 is 1.

Let us assume that 1, 2, 3, 4, 5 and 6 are the possible outcomes when the die is thrown.

Probability of getting a number less than 7 = Number less than 7 / number of sides in die.

$$= 6/6$$

$$= 1$$

**25. In throwing a die the number of possible outcomes is \_\_\_\_\_.**

**Solution:-**

In throwing a die the number of possible outcomes is 6.

26. \_\_\_\_\_ can be used to compare two collections of data.

**Solution:-**

A double bar graph can be used to compare two collections of data.

27. The representation of data with bars of uniform width is called \_\_\_\_\_.

**Solution:-**

The representation of the data in the form of rectangles (bars) of uniform width is called a bar graph.

28. If the arithmetic mean of 8, 4, x, 6, 2, 7 is 5, then the value of x is \_\_\_\_\_.

**Solution:-**

If the arithmetic mean of 8, 4, x, 6, 2, 7 is 5, then the value of x is 3.

29. The median of any data lies between the \_\_\_\_\_ and \_\_\_\_\_ observations.

**Solution:-**

The median of any data lies between the minimum and maximum observations.

30. Median is one of the observations in the data if number of observations is \_\_\_\_\_.

**Solution:-**

Median is one of the observations in the data if number of observations is odd.

31. Rohit collected the data regarding weights of students of his class and prepared the following table:

Weight (in kg)	44 – 47	48 – 51	52 - 55	56 – 60
Number of Students	3	5	25	7

A student is to be selected randomly from his class for some competition. The probability of selection of the student is highest whose weight is in the interval \_\_\_\_\_.

**Solution:-**

A student is to be selected randomly from his class for some competition. The probability of selection of the student is highest whose weight is in the interval 52 - 55. Because, more number of students comes under this interval.

In Questions 32 to 49, state whether the statements are True or False.

32. If a die is thrown, the probability of getting a number greater than 6 is 1.

**Solution:-**

False.

The possible outcomes when the die is thrown are 1, 2, 3, 4, 5 and 6.

**33. When a coin is tossed, there are 2 possible outcomes.**

**Solution:-**

True.

When a coin is tossed, there are 2 possible outcomes i.e. either Head (H) or Tail (T).

**34. If the extreme observations on both the ends of a data arranged in ascending order are removed, the median gets affected.**

**Solution:-**

False.

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

So, if the extreme observations on both the ends of a data arranged in ascending order are removed, the median is not affected.

**35. The measures of central tendency may not lie between the maximum and minimum values of data.**

**Solution:-**

False.

The measures of central tendency lies between the maximum and minimum values of data.

**36. It is impossible to get a sum of 12 of the numbers on both dice when a pair of dice is thrown together.**

**Solution:-**

True.

The possible outcomes when the die is thrown are 1, 2, 3, 4, 5 and 6.

If both dice get 6, then sum of the number is 12.

**37. The probability of the spinning arrow stopping in the shaded region is  $\frac{1}{2}$ .**



**Solution:-**

True.

Probability of spinning arrow stopping in the shaded region = Number of shaded part in circle/total number of parts

$$= 2/4$$

$$= \frac{1}{2}$$

**38. A coin is tossed 15 times and the outcomes are recorded as follows:**

**HTTHTHTHTTHTHTT. The chance of occurrence of a head is 50 per cent.**

**Solution:-**

False.

The chance of occurrence of a head = occurrence of a head /total number of trials

$$= 7/15 \times 100$$

$$= 46.6 \%$$

**39. Mean, Median and Mode may be the same for some data.**

**Solution:-**

True.

Let us consider the data 4, 3, 4, 3, 4, 6, 4

Mean of the given data =  $(4 + 3 + 4 + 3 + 4 + 6 + 4)/7$

$$= 4$$

Mode is the observation that occurs most frequently in the data i.e. 4.

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

Arranging the given data, 3, 3, 4, 4, 4, 4, and 6.

So, the median is 4.

**40. The probability of getting an ace out of a deck of cards is greater than 1.**

**Solution:-**

False.

The probability of getting an ace out of a deck of cards is less than 1.

**41. Mean of the data is always from the given data.**

**Solution:-**

False.

The average or Arithmetic Mean or mean of a given data is defined as Sum of all observations by the Number of observations.



**42. Median of the data may or may not be from the given data.**

**Solution:-**

True.

When the given data is arranged in ascending (or descending) order, then the middle most observation is the median of the data.

**43. Mode of the data is always from the given data.**

**Solution:-**

True.

Mode is the observation that occurs most frequently in the data.

**44. Mean of the observations can be lesser than each of the observations.**

**Solution:-**

False.

**45. Mean can never be a fraction.**

**Solution:-**

False.

**46. Range of the data is always from the data.**

**Solution:-**

False.

The difference between the highest and lowest observations in a given data is called its range.



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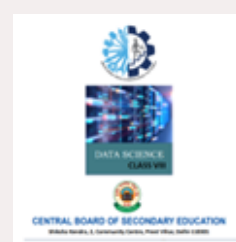
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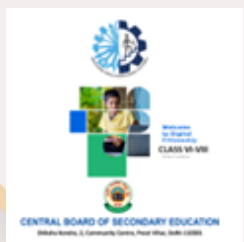
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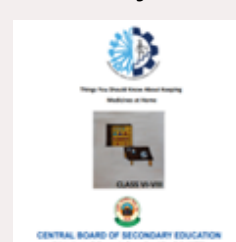
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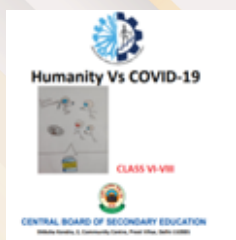
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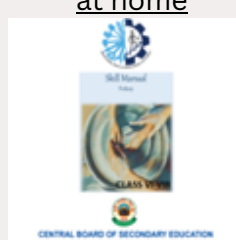
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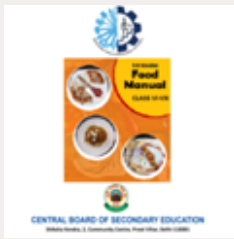
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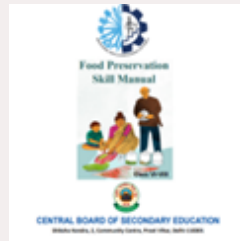
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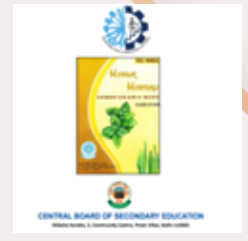
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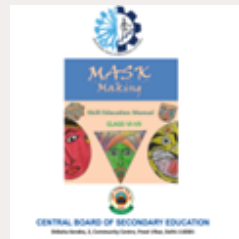
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Herbal Heritage



Khadi



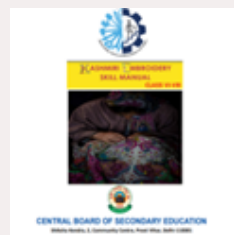
Mask Making



Mass Media



Making of a Graphic Novel



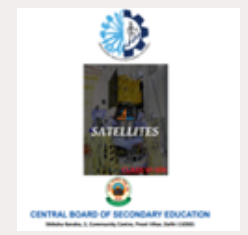
Kashmiri Embroidery



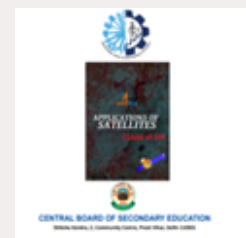
Embroidery



Rockets



Satellites



Application of Satellites

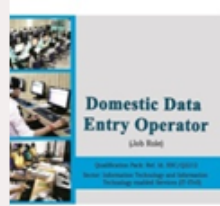


Photography

# SKILL SUBJECTS AT SECONDARY LEVEL (CLASSES IX – X)



Retail



Information Technology



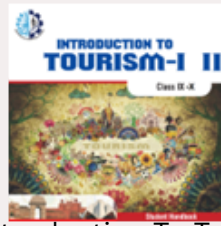
Security



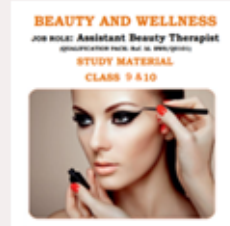
Automotive



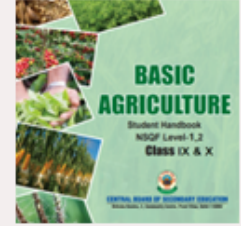
Introduction To Financial Markets



Introduction To Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking & Insurance



Marketing & Sales



Health Care



Apparel



Multi Media



Multi Skill Foundation Course



Artificial Intelligence



Physical Activity Trainer



Data Science



Electronics & Hardware (NEW)

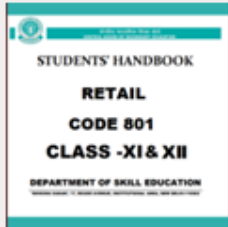


Foundation Skills For Sciences (Pharmaceutical & Biotechnology)(NEW)

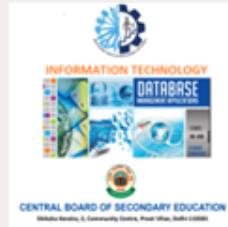


Design Thinking & Innovation (NEW)

# SKILL SUBJECTS AT SR. SEC. LEVEL (CLASSES XI – XII)



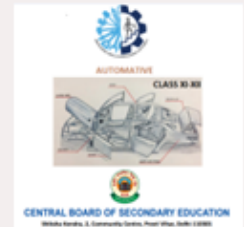
Retail



Information Technology



Web Application



Automotive



Financial Markets Management



Tourism



Beauty & Wellness



Agriculture



Food Production



Front Office Operations



Banking



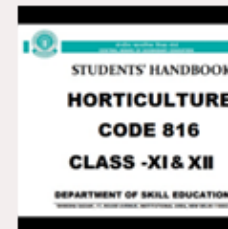
Marketing



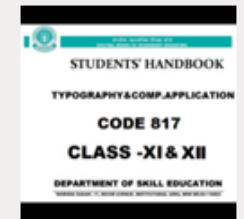
Health Care



Insurance



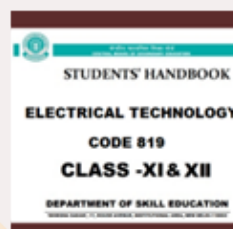
Horticulture



Typography & Comp.  
Application



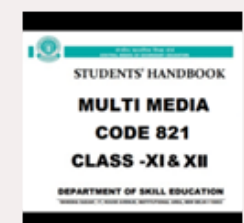
Geospatial Technology



Electrical Technology



Electronic Technology



Multi-Media





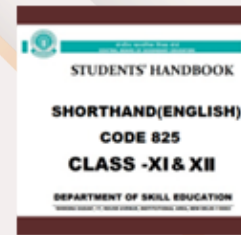
Taxation



Cost Accounting



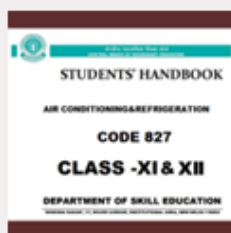
Office Procedures & Practices



Shorthand (English)



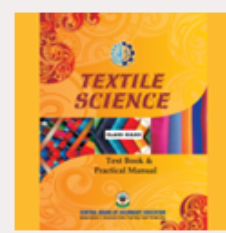
Shorthand (Hindi)



Air-Conditioning & Refrigeration



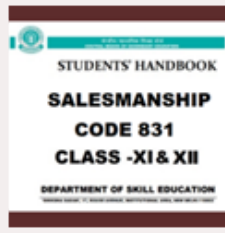
Medical Diagnostics



Textile Design



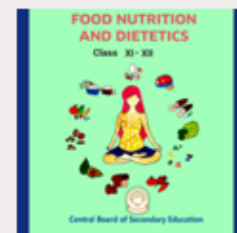
Design



Salesmanship



Business Administration



Food Nutrition & Dietetics



Mass Media Studies



Library & Information Science



Fashion Studies



Applied Mathematics



Yoga



Early Childhood Care & Education



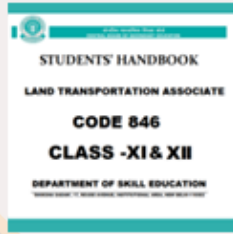
Artificial Intelligence



Data Science



Physical Activity Trainer(new)



Land Transportation Associate (NEW)



Electronics & Hardware (NEW)



Design Thinking & Innovation (NEW)



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